

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: June 25, 2003, 14:55:36 ; Search time 16.5271 Seconds

(without alignments)  
680,911 Million cell updates/sec

Title: US-09-622-613b-11

Perfect score: 577

Sequence: 1 SWMLTFQKHLLTNRDVCN.....TFCVTCENQAPVHFVGVGHC 104

Scoring table: BLOSUM62

Gapop: 10.0 , Gapext: 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA:\*

1: /cgn2\_6/ptodata/1/pubppaa/US08\_NEW\_PUB pep:\*

2: /cgn2\_6/ptodata/1/pubppaa/PCT\_NEW\_PUB pep:\*

3: /cgn2\_6/ptodata/1/pubppaa/US06\_NEW\_PUB pep:\*

4: /cgn2\_6/ptodata/1/pubppaa/US06\_PUBCOMB pep:\*

5: /cgn2\_6/ptodata/1/pubppaa/US07\_NEW\_PUB pep:\*

6: /cgn2\_6/ptodata/1/pubppaa/US07\_PUBCOMB pep:\*

7: /cgn2\_6/ptodata/1/pubppaa/PCTUS\_PUBCOMB pep:\*

8: /cgn2\_6/ptodata/1/pubppaa/US08\_PUBCOMB pep:\*

9: /cgn2\_6/ptodata/1/pubppaa/US09\_NEW\_PUB pep:\*

10: /cgn2\_6/ptodata/1/pubppaa/US09\_PUBCOMB pep:\*

11: /cgn2\_6/ptodata/1/pubppaa/US10\_NEW\_PUB pep:\*

12: /cgn2\_6/ptodata/1/pubppaa/US10\_PUBCOMB pep:\*

13: /cgn2\_6/ptodata/1/pubppaa/US60\_NEW\_PUB pep:\*

14: /cgn2\_6/ptodata/1/pubppaa/US60\_PUBCOMB pep:\*

## SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB ID	Description
1	577	100.0	104	9	US-09-948-391A-11
2	577	100.0	105	9	US-09-948-391A-13
3	573	99.3	105	9	US-09-948-391A-6
4	573	99.3	127	9	US-09-948-391A-28
5	564	97.7	104	9	US-09-948-391A-2
6	564	97.7	104	9	US-09-948-391A-4
7	555	96.2	105	9	US-09-948-391A-8
8	555	96.2	111	9	US-09-948-391A-9
9	551	95.5	104	9	US-09-948-391A-1
10	551	95.5	105	9	US-10-153-882-2
11	451	77.1	83	9	US-09-886-119-3
12	280.5	48.6	110	9	US-09-948-391A-24
13	280.5	48.6	111	9	US-09-948-391A-26
14	276.5	47.9	111	9	US-09-948-391A-15
15	272.5	47.2	111	9	US-09-948-391A-21
16	272.5	47.2	117	9	US-09-948-391A-12
17	270.5	46.9	111	9	US-09-948-391A-17
18	256.5	46.2	110	9	US-09-948-391A-19
19	157.5	27.3	169	12	US-10-016-447-2

20	128.5	22.3	124	12	US-10-016-447-5	Sequence 5, Appli
21	113	19.6	147	10	US-09-286-240-6	Sequence 6, Appli
22	113	19.6	147	10	US-09-863-777-2	Sequence 2, Appli
23	113	19.6	147	10	US-09-731-872-254	Sequence 254, App
24	112	19.4	124	9	US-09-981-286A-8	Sequence 8, Appli
25	99.5	17.2	151	12	US-10-016-447-6	Sequence 6, Appli
26	93.5	16.2	156	9	US-09-796-753-102	Sequence 102, App
27	93.5	16.2	156	9	US-09-796-753-118	Sequence 118, App
28	93.5	16.2	156	9	US-10-245-103-60	Sequence 60, Appli
29	93.5	16.2	156	9	US-10-245-107-60	Sequence 60, Appli
30	93.5	16.2	156	9	US-10-245-143-60	Sequence 60, Appli
31	93.5	16.2	156	9	US-10-245-143-60	Sequence 60, Appli
32	93.5	16.2	156	9	US-10-245-771-60	Sequence 60, Appli
33	93.5	16.2	156	9	US-10-245-851-60	Sequence 60, Appli
34	93.5	16.2	156	9	US-10-245-883-60	Sequence 60, Appli
35	93.5	16.2	156	9	US-10-237-535-60	Sequence 60, Appli
36	93.5	16.2	156	9	US-10-238-183-60	Sequence 60, Appli
37	93.5	16.2	156	9	US-10-238-283-60	Sequence 60, Appli
38	93.5	16.2	156	9	US-10-238-370-60	Sequence 60, Appli
39	93.5	16.2	156	9	US-10-245-055-60	Sequence 60, Appli
40	93.5	16.2	156	9	US-10-245-147-60	Sequence 60, Appli
41	93.5	16.2	156	9	US-10-245-730-60	Sequence 60, Appli
42	93.5	16.2	156	9	US-10-245-739-60	Sequence 60, Appli
43	93.5	16.2	156	9	US-10-246-210-60	Sequence 60, Appli
44	93.5	16.2	156	9	US-10-239-196-60	Sequence 60, Appli
45	93.5	16.2	156	9	US-10-243-024-60	Sequence 60, Appli
					US-10-243-409-60	Sequence 60, Appli

## ALIGNMENTS

RESULT 1

US-09-948-391A-11

Sequence 11, Application US/09948391A

Publication NO. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

TITLE OF INVENTION: Department of Health and Human Services

FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948, 391A

CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079, 751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622, 613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 11

LENGTH: 104

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens

OTHER INFORMATION: ribonuclease with GlnSer substitution

OTHER INFORMATION: (recombinant Rap1a1 Q15)

US-09-948-391A-11

Query Match 100.0%; Score 577; DB 9; Length 104;

Best Local Similarity 100.0%; Pred. No. 7.9e-57;

Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SDMLTFQKHLLTNRDVCNINMSTNLFHCKDKNTFTYSREPVKATCKGIIASKNVLT 60

DB 1 SDMLTFQKHLLTNRDVCNINMSTNLFHCKDKNTFTYSREPVKATCKGIIASKNVLT 60

OY 61 SEFLSDCNVTSRCKTKKLSKSTNFTFCVTCENQAPVHFVGVGHC 104

DB 61 SEFYLSDCNVTSRPCKYKLLKSTNTPFCVTCENQAPVHFVGVGHC 104

RESULT 2  
US-09-948-391A-13  
; Sequence 13, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; PRIOR FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO: 13  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
; OTHER INFORMATION: ribonuclease with Met at position 1 and Gluzser  
US-09-948-391A-13

Query Match  
Best Local Similarity 100.0%; Score 577; DB 9; Length 105;  
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SDMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLTTS 60  
DB 2 SDMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLTTS 61  
QY 61 SEFYLSDCNVTSRPCKYKLLKSTNTPFCVTCENQAPVHFVGVGHC 104  
DB 62 SEFYLSDCNVTSRPCKYKLLKSTNTPFCVTCENQAPVHFVGVGHC 105

RESULT 3  
US-09-948-391A-6  
; Sequence 6, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; PRIOR FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO: 6  
; LENGTH: 105  
; TYPE: PRT

ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
; OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant  
US-09-948-391A-6

Query Match  
Best Local Similarity 99.3%; Score 573; DB 9; Length 105;  
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLTTS 61  
DB 3 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLTTS 62  
QY 62 EFYLSDCNVTSRPCKYKLLKSTNTPFCVTCENQAPVHFVGVGHC 104  
DB 63 EFYLSDCNVTSRPCKYKLLKSTNTPFCVTCENQAPVHFVGVGHC 105

RESULT 4  
US-09-948-391A-28  
; Sequence 28, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; PRIOR FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO: 28  
; LENGTH: 127  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
; FEATURE:  
; OTHER INFORMATION: Rana pipiens ribonuclease (RapLRI) Clone 5a1b cDNA  
US-09-948-391A-28

Query Match  
Best Local Similarity 100.0%; Score 573; DB 9; Length 127;  
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLTTS 61  
DB 25 DMLTFQKKHLNTRVDCNNIMSTNLFHCKDKNTFTYSRPEPVKAICKGIASKNVLTTS 84  
QY 62 EFYLSDCNVTSRPCKYKLLKSTNTPFCVTCENQAPVHFVGVGHC 104  
DB 85 EFYLSDCNVTSRPCKYKLLKSTNTPFCVTCENQAPVHFVGVGHC 127

RESULT 5  
US-09-948-391A-2  
; Sequence 2, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the

APPLICANT: Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 104  
TYPE: PRT  
ORGANISM: Rana pipiens  
FEATURE:  
OTHER INFORMATION: ribonuclease (RaplR1)  
US-09-948-391A-2

Query Match 97.7%; Score 564; DB 9; Length 104;  
Best Local Similarity 99.08; Pred. No. 2,2e-55;  
Matches 102; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 DWLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIITASKNVLTTS 61  
DB 2 DWLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIITASKNVLTTS 61  
OY 62 EFTLSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGSHC 104  
DB 62 EFTLSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGSHC 104

RESULT 6  
US-09-948-391A-4  
Sequence 4, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 104  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
ribonuclease with Met23Leu substitution  
OTHER INFORMATION: (recombinant, RapLr1 Met23Leu)  
US-09-948-391A-4

Query Match 97.7%; Score 564; DB 9; Length 104;  
Best Local Similarity 98.1%; Pred. No. 2,2e-55;  
Matches 101; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 DWLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIITASKNVLTTS 61  
DB 2 DWLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIITASKNVLTTS 61

OY 62 EFTLSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGSHC 104  
DB 62 EFTLSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGSHC 104

RESULT 7  
US-09-948-391A-8  
Sequence 8, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 105  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
ribonuclease with Met at position 1 and Met24Leu  
OTHER INFORMATION: substitution (recombinant Met(-1) RapLr1 Met23Leu)  
US-09-948-391A-8

Query Match 96.2%; Score 555; DB 9; Length 105;  
Best Local Similarity 97.1%; Pred. No. 2,2e-54;  
Matches 100; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 2 DWLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIITASKNVLTTS 61  
DB 3 DWLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFYISREPPYKAICKGIITASKNVLTTS 62  
OY 62 EFTLSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGSHC 104  
DB 63 EFTLSDCNVTSRPPCKYKLRKSTNFCVTCENQAPVHFVGSHC 105

RESULT 8  
US-09-948-391A-9  
Sequence 9, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-343110US  
CURRENT APPLICATION NUMBER: US/09/948,391A  
CURRENT FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0

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: SEQ ID NO 9
:
: LENGTH: 111
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with (His)6 tag, Met at position 7
: OTHER INFORMATION: and Met30Leu substitution (recombinant Met(-1))
: OTHER INFORMATION: RAPIR1 Met23Leu-(His)6
: US-09-948-391A-9
:
: Query Match          96.2%; Score 555; DB 9; Length 111;
: Best Local Similarity 97.1%; Pred. No. 2.4e-54;
: Matches 100; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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: Oy      2 DMLTFQKKHLNTFDDVDCNNIMSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 61
: Db      9 DMLTFQKKHLNTRDVCNNILSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTF 68
:
: Oy      62 EFYLSDCNVTSRPCKYKILKSTNTEFCVTCENQAPVHFVGSHC 104
: Db      69 EFYLSDCNVTSRPCKYKILKSTITEFCVTCENQAPVHFVGSHC 111
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: RESULT 9
: US-09-986-119-1
: Sequence 1, Application US/09986119
: Publication No. US20020187153A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: Newton, Dianne L.
: Goldenberg, David M.
: TITLE OF INVENTION: Immunotoxins Directed Against Malignant
: Cells
: NUMBER OF SEQUENCES: 3
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Townsend and Townsend and Crew LLP
: STREET: Two Embarcadero Center, Eighth Floor
: CITY: San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94111-3834
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/986,119
: FILING DATE: 07-NO. US20020187153A1-2001
: CLASSIFICATION: <Unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/09/071,672
: FILING DATE: 01-MAY-1998
: APPLICATION NUMBER: US 60/046,895
: FILING DATE: 02-MAY-1997
: ATTORNEY/AGENT INFORMATION:
: NAME: Weber, Ellen Lauver
: REGISTRATION NUMBER: 32,762
: REFERENCE/DOCKET NUMBER: 015280-32510US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 576-0200
: TELEFAX: (415) 576-0300
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 104 amino acids
: TYPE: amino acid
: STRANDEDNESS: <Unknown>
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: 1

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: OTHER INFORMATION: /product= "OTHER"
: /note= "Xaa = Glu or pyroglutamic acid"
: FEATURE:
: NAME/KEY: Protein
: LOCATION: 1..104
: OTHER INFORMATION: /note= "RNase A derived from
: Rana pipiens, "onc protein"
: SEQUENCE DESCRIPTION: SEQ ID NO: 1:
: US-09-986-119-1
:
: Query Match          95.5%; Score 551; DB 9; Length 104;
: Best Local Similarity 96.1%; Pred. No. 6.2e-54;
: Matches 99; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
:
: Oy      2 DMLTFQKKHLNTFDDVDCNNIMSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 61
: Db      2 DMLTFQKKHLNTRDVCNNILSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 61
:
: Oy      62 EFYLSDCNVTSRPCKYKILKSTNTEFCVTCENQAPVHFVGSHC 104
: Db      62 EFYLSDCNVTSRPCKYKILKSTNTEFCVTCENQAPVHFVGSHC 104
:
: RESULT 10
: US-10-153-882-2
: Sequence 2, Application US/10153882
: Publication No. US20030099629A1
: GENERAL INFORMATION:
: APPLICANT: GOLDENBERG, David M.
: HANSEN, Hans
: TITLE OF INVENTION: RECOMBINANT ONCONASE, AND CHEMICAL CONJUGATES AND
: FILE OF INVENTION: FUSION PROTEINS OF RECOMBINANT ONCONASE
: FILE REFERENCE: 018733/0913
: CURRENT APPLICATION NUMBER: US/10/153,882
: CURRENT FILING DATE: 2002-05-24
: PRIOR APPLICATION NUMBER: US/09/265,901
: PRIOR FILING DATE: 1999-03-11
: PRIOR APPLICATION NUMBER: US 60/077,557
: PRIOR FILING DATE: 1998-03-11
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: Patentin Ver. 2.0
: SEQ ID NO 2
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Rana pipiens
: US-10-153-882-2
:
: Query Match          95.5%; Score 551; DB 9; Length 105;
: Best Local Similarity 96.1%; Pred. No. 6.2e-54;
: Matches 99; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
:
: Oy      2 DMLTFQKKHLNTFDDVDCNNIMSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 61
: Db      3 DMLTFQKKHLNTRDVCNNILSTNLFHCKDKNFTYSRPPVKAICKGIASKNVLTTS 62
:
: Oy      62 EFYLSDCNVTSRPCKYKILKSTNTEFCVTCENQAPVHFVGSHC 104
: Db      63 EFYLSDCNVTSRPCKYKILKSTNTEFCVTCENQAPVHFVGSHC 105
:
: RESULT 11
: US-09-986-119-3
: Sequence 3, Application US/09986119
: Publication No. US20020187153A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: Newton, Dianne L.
: Goldenberg, David M.
: TITLE OF INVENTION: Immunotoxins Directed Against Malignant
: Cells
: NUMBER OF SEQUENCES: 3
: CORRESPONDENCE ADDRESS:

```

ADDRESSES: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION NUMBER: US/09/986,119  
FILING DATE: 07-NO. US20020187153A1-2001  
CLASSIFICATION: <Unknown>  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US/09/071,672  
FILING DATE: 01-MAY-1998  
APPLICATION NUMBER: US 60/046,895  
FILING DATE: 02-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 015280-3251005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 83 amino acids  
TYPE: amino acid  
STRANDEDNESS: <Unknown>  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..83  
OTHER INFORMATION: /note="Onc protein", positions 16-98  
of SEQ ID NO:1"  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-09-986-119-3  
Query Match 77.1%; Score 445; DB 9; Length 83;  
Best Local Similarity 97.6%; Pred. No. 2.9e-42;  
Matches 81; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 16 DVDCCNIMSTNLFHCKDKNTFTYSRPPVKAICKGIASKNVLTSEFYLSDCNVTSRPC 75  
DB 1 DVDCCNIMSTNLFHCKDKNTFTYSRPPVKAICKGIASKNVLTSEFYLSDCNVTSRPC 60  
QY 76 KYKLKSTNTFCVTCENQAPVHF 98  
DB 61 KYKLKSTNTFCVTCENQAPVHF 83  
RESULT 12  
US-09-948-391A-24  
Sequence 24, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-34311005  
CURRENT APPLICATION NUMBER: US/09/948,391A  
FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 24  
LENGTH: 110  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana  
caesabellana ribonuclease with Gln1ser substitution  
OTHER INFORMATION: (recombinant RacOR1 Q15)  
US-09-948-391A-24  
Query Match 48.6%; Score 280.5; DB 9; Length 110;  
Best Local Similarity 49.5%; Pred. No. 7.7e-24;  
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;  
QY 1 SDMLTFQKKHLNTNRDVCNNIMSTNLF---HCKDKNTFTYSRPPVKAICKGIASKN 56  
DB 1 SNMATEQKKHINT-PIICNTIMDNNTIYVGCKKRVNFTISSATTVAKICGV1-NMN 58  
QY 57 VLTSEFYLSDC---NVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
DB 59 VLTSTFQNTCTRTSITPRPCYSSRTETNYICVACENQAPVHFAGIGRC 109  
RESULT 13  
US-09-948-391A-26  
Sequence 26, Application US/09948391A  
Publication No. US20030027311A1  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: The United States of America  
APPLICANT: as represented by The Secretary of the  
Department of Health and Human Services  
TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
FILE REFERENCE: 015280-34311005  
CURRENT APPLICATION NUMBER: US/09/948,391A  
FILING DATE: 2002-05-10  
PRIOR APPLICATION NUMBER: US 60/079,751  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: US 09/622,613  
PRIOR FILING DATE: 2000-08-17  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 26  
LENGTH: 111  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Rana  
caesabellana ribonuclease with Met at position 1  
OTHER INFORMATION: and Gln2ser substitution (Met(-1) RacOR1 Q15)  
US-09-948-391A-26  
Query Match 48.6%; Score 280.5; DB 9; Length 111;  
Best Local Similarity 49.5%; Pred. No. 7.8e-24;  
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;  
QY 1 SDMLTFQKKHLNTNRDVCNNIMSTNLF---HCKDKNTFTYSRPPVKAICKGIASKN 56  
DB 2 SNMATEQKKHINT-PIICNTIMDNNTIYVGCKKRVNFTISSATTVAKICGV1-NMN 59  
QY 57 VLTSEFYLSDC---NVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
DB 60 VLTSTFQNTCTRTSITPRPCYSSRTETNYICVACENQAPVHFAGIGRC 110  
RESULT 14

```

; OTHER INFORMATION: Met23Leu and Met558Leu substitutions (recombinant
; OTHER INFORMATION: Met(-1) RACON1 Met22Leu Met57Leu)
US-09-948-391A-21

Query Match      47.2%; Score 272.5; DB 9; Length 111;
Best Local Similarity 48.2%; Pred. No. 6,1e-23;
Matches 53; Conservative 16; Mismatches 32; Indels 9; Gaps 4

OY      2 DWTLPCKHLNTNRDVCNNINMSTLF----HCKDKNTFYISREPYKAIKGIISKNV 57
          :| | | | | : | | : | | : | | | | | | | | | | : | |
Db      3 NMTFPOCKHIINT-PICTCTILDNNIYVGGCKRVMFTFISSATYTKAICTGVI- 60
          : | | | | | : | | : | | : | | | | | | | | | | : | |

OY      58 LTTSEFYLSDC---NVTSRPKCYKYLKLSKTSNFCVTCENQAPVHFVGVGHC 104
          : | | : | | : | | : | | : | | | | | | | | | | : | |
Db      61 LSTTRPOLNCTRTSITPRCPYSRFTFTNIVICVCKCENQAPVHFAGIGRC 110
          : | | : | | : | | : | | : | | | | | | | | | | : | |

Search completed: June 25, 2003, 15:42:15
Job time : 17:5271 secs

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